

## SEVERE LOCAL STORMS FOR JUNE 1947

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Ohio, entire State of.....	1-2-6-7-13-14			0		Heavy rains.....	Rivers and smaller streams overflowed. Crops in lowlands under water; roads closed; families in low sections forced from their homes. Some streams highest on record for June.
Pine Bluff, Ark.....	1	3:20 p. m.	1 1/4-1 1/2	35	\$750,000	Tornado.....	Moving from southwest, it first touched ground 8 miles southwest of Pine Bluff. Approaching the city, it veered east and southeast bypassing the city then recurving to the northeast. Forward motion about 30 m. p. h. Area of greatest damage at Union. Only point of apparent total destruction a short distance west-northwest of Ladd. 300 injured; 500 homeless. Fish were killed in Bartholomew Bayou.
Phillips County, Kans....	1	Afternoon.....	1 3/4	0	\$10,000	Hail.....	Wheat damaged in southwestern part of the county. Hail was generally the size of marbles or slightly larger. Moved from southwest; path 8 miles long.
Payette-Fruitland area to vicinity of Emmett, Idaho.	1	5:45-7 p. m.	1 2	0	Probably \$200,000	do.....	Hailstones, described as "small to golf-ball size", fell throughout the orchard areas in the vicinity of Payette and Fruitland and near Emmett. Damage was estimated at 25 to 30 percent of the crop in the area south of Fruitland; major damage to apple crop. Monetary value of loss of fruit uncertain because of market conditions. Alfalfa and some row crops also damaged in the Payette Valley. Storm moved from west to east up the Payette Valley.
Bolivar County, Miss., near Benoit and Scott.	1	6:30 p. m.	1,760	0	\$20,000	High wind and hail...	Undoubtedly a severe thunderstorm and not a tornado; evidence indicates that it was the remnants of the tornado which passed near Pine Bluff, Ark. on the same afternoon. Over 8 inches of rain fell at Morehead, Miss., beginning at 6:50 p. m., damage primarily to crops, although 2 barns and several houses were destroyed and many others damaged.
Dancy, Ala.....	2	6 a. m.		0	\$5,000	Thundersquall.....	Destroyed the depot, a warehouse, and damaged 1 house and a mill house.
Loma, Colo.....	3	4:45-5:00 p. m.	880	0	\$2,500	Hail.....	Hail piled 3 to 4 inches deep, principal damage to small grains and hay. Path from 2 miles south of Loma in a north-northeast direction to 7 miles north-northeast of Loma.
Rutland, Vt.....	3	8-10 p. m.		0	\$2,000,000	Heavy rain.....	A power dam at East Pittsford, Vt., 6 miles northeast of Rutland, Vt., collapsed. Outlying sections in the lower portion of the city flooded to an estimated depth of 9 to 15 feet necessitating the evacuation of 500 families and suspension of power plants. City was deprived of drinking water, electricity, power and gas for more than 24 hours. The main-line trestle bridge of the Rutland Railroad over East Creek collapsed; several old wooden bridges were destroyed and highways were blocked temporarily by debris. A considerable amount of meadow and cultivated ground in the Rutland area were buried under a thick layer of silt and gravel; growing crops destroyed.
Butler County, Kans.....	4	2:30 a. m.		0	\$10,000	High winds.....	Reported velocities near 80 m. p. h. damaged building roofs, sheds, and trees in El Dorado and surrounding community. Many power and communication lines broken. Crop damage light. Moved from southwest, path 20 miles long.
North Council to Middle Fork of the Weiser River in Idaho.	4 and 7	10:10 a. m.-2 p. m.	1 1/4	0	\$15,000-\$20,000	Hail.....	Moderate hailstorms occurred on June 4 and 7. Storms headed in Mill Creek Canyon—took a narrow path through North Council orchard area—coming from northeast and then turning back directly north. Principal crop damaged, apples; in center of storm 90 percent of fruit badly marked—balance of area 10 to 35 percent marked.
Finney and Gray Counties, Kans.	4	3 p. m.	1 3	0	\$420,000	Heavy hail.....	Crops and buildings damaged. Path extended from Pierceville, in southwestern Finney to northwestern Gray County. Poultry losses heavy. Larger hailstones were 9 to 1 1/4 inches in circumference. Losses in and near Pierceville totaled about \$20,000. Wheat damage over a somewhat smaller area in southeastern Gray County at 9 p. m.
Great Falls, Mont., 12 miles northeast.	4	Afternoon.....	1 2-3	0	\$50,000	Hail.....	Winter wheat loss.
Twitty, Wheeler County, Tex.	4	5:20 p. m.		0	Several hundred	Tornado; hail.....	Buildings damaged.
Big Stone County, Minn.	4	5 p. m.	1 7/4	0	\$15,000	Hail.....	Light to heavy hail that accompanied a severe thunderstorm caused considerable damage to growing crops and slight damage to property.
Shamrock, Wheeler County, Tex.	4	5:40 p. m.	1 4	0	Up to \$250,000	do.....	Damage mostly to crops by hail. Estimated damage includes amount at Twitty.
Near Milford, Nebr.....		Late afternoon.....	Narrow	0	No estimate	3 small tornadoes.....	A farmhouse considerably damaged and other buildings on this farm destroyed.
Stafford County, Kans....	4 and	7:30 p. m. 1 a. m.	1 3	0	\$30,000	Hail.....	The more severe storm occurred on the 5th. It was centered in a path running from 5 miles southwest of Hudson to the extreme northeastern part of the county. Gardens were riddled and many windowpanes broken around Hudson, although principal damage was to crops. Storm of 4th moved from northwest; path 12 miles long.
Ford County, Kans.....	4	8 p. m.	1 5	0	\$50,000	Heavy hail.....	Hail damage to wheat occurred in an area west of Dodge City through the east-central part. Moved from west; path 10 miles long.
Atchison County, Kans....	4	9:47-10:15 p. m.	440	0	\$30,000	Violent winds.....	Winds of tornadoic proportions damaged property across most of the central part. The path passed through Effingham and the northeastern edge of Atchison. Most of urban damage due to falling trees and broken tree limbs which struck buildings. No crop damage reported. Moved from west-southwest; path 22 miles long.

See footnotes at end of table.

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Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Shawnee County, Kans.	4	11 p. m.	440	0	\$1,250	High winds	In the vicinity of Topeka, at the airport of the Allen Flying Service, a parked plane damaged and a small house moved about 6 feet. Moved from southwest; path $\frac{3}{4}$ mile long.
Snyder, Colo.	5	P. m.		1		Lightning	Man instantly killed by lightning near Snyder.
Cheyenne Wells, Colo.	5	7-9 p. m.		0	\$12,000	Hail	$1\frac{1}{2}$ -inch hailstones caused severe loss of wheat in section around Cheyenne Wells; damage spotted and ranged from 10 to 50 percent.
Cheyenne County, Kans.	5	8:30-9:30 p. m.	112	0	\$1,000,000	Heavy hail	Principal damage to wheat in the north-central portion; spotted damage in other parts. Storm one of the worst in recent years. Moved from west-northwest; path 18 miles long.
Rawlins County, Kans.	5	9-11 p. m.	18	0	\$500,000	do	Wheat damaged from 40 to 100 percent in storm area, which was located in southern part of county. The heaviest part of the storm was centered south and west of Atwood, where nearly complete losses occurred. Moved from northwest; path 15 miles long.
Geary County, Kans.	6	3 a. m.	1,760	0	\$2,000	Windstorm	Chief building damage from falling trees and limbs in a high gusty wind at Junction City. No crop damage occurred in vicinity. Moved from southwest; path 3 miles long.
Riley County, Kans.	6	3:30 a. m.	176	0	\$9,000	do	Storm originated 3 miles northwest of Leonardville, and dissipated in the vicinity immediately east of Randolph. High winds damaged buildings, but no crop loss. Moved from southwest; path 15 miles long.
Lyon County, Kans.	6	5 a. m.	1,760	0	\$250	do	Loss was confined to few damaged roofs and trees. Storm path passed through west edge of Reading. Moved from northwest.
Julesburg, Colo.	6	1:40-2 p. m.	150	0	\$500,000	Tornado	About 1 p. m., tornado formed about 4 miles northwest of Julesburg, followed an easterly course to near the north edge of the town, and at 1:40 p. m., moved in a southeasterly direction through the town. Buildings and automobiles damaged or demolished; crops destroyed; no serious injury to persons. Estimated damage to growing crops (beets, oats, wheat; stored feed, and livestock): \$2,600; property damage, \$497,400.
Champaign, Ill.	6	3:30 p. m.	40	0	\$200,000	do	Moved through 15 blocks in west Champaign, then eastward 15 miles, causing slight damage at Ogden. Forward speed, about 10 to 25 m. p. h.
Major County, Okla., southwest.	6	7:15-7:45 p. m.	200	0	\$4,000	do	Storm began 6 miles east of Chester and traveled due east down Highway No. 60 for $1\frac{1}{2}$ miles. Farm-house destroyed; barn damaged; 2 horses and 2 cows killed.
Berlin, W. Va., and vicinity.	6	Evening		0	No estimate	Heavy hail and rain	Hail up to 2 inches in diameter and 3 to 4 inches deep over about 1 square mile. Gardens and young crops practically destroyed. Windows broken and roofs damaged.
Blaine County, Okla.	6	9 p. m.	1 $\frac{1}{4}$ -2	0	Considerable	High wind and hail	Between Canton and Eagle City—12,800 acres damaged in a path 13 miles long.
Mercer, Pa.	7	3:55 p. m.		0		Tornado	Buildings completely destroyed; trees uprooted and twisted; cars and trucks blown away; 4 persons injured.
Sharon, Pa.	7	3:55 p. m.	14	3	\$1,000,000	do	25 houses destroyed; 300 others damaged. Hundreds of trees uprooted, power lines down, water and gas mains broken. Poles blown around like splinters.
Neosho County, Kans.	7	4:22-4:53 p. m.	12	0	\$175,000	High wind and heavy hail	Chief damage to buildings in the storm path, which was through the northern part of the county, especially in Chanute, where many roofs were damaged by hail. Hundreds of windows were broken, nearly all electrical signs damaged, and thousands of glass panes in greenhouses shattered. The hail fell with sufficient force to damage steel car tops. Crop losses were rather limited. Hailstones from $\frac{1}{2}$ to 2 inches in diameter. Moved from west; path 20 miles long.
The Dalles, Oreg., north end Wasco County.	7	4:50-6:15 p. m.	15	1	\$850,000	Severe thunderstorm and flash flood.	Storm moved from west to east. Fruit badly damaged, buildings flooded, severe soil erosion, autos and camp trailers covered with flood debris; city streets damaged.
Trumbull County, Ohio.	7	Afternoon		3		Tornado	Tornado apparently moved from point about 3 miles south of Warren, Ohio, eastward into Sharon and Mercer, Pa. About 30 homes wrecked and 100 people homeless in rural areas; 40 persons injured.
Lower Yakima Valley, Wash.	7 and 8	Afternoon and night		0		Heavy rain, local hail, and wind.	Crop damage to ripe, unpicked cherries, ranged from 10 to 60 percent. Local damage to truck farms. Monetary losses not estimated due to variation in losses and salvage. Few basements flooded.
Crawford County, Kans.	7	5:28 p. m.	880	0	\$12,500	Hail and tornado	Damaged area centered in and near Arcadia. Loss from hail damage to buildings and crops was estimated at \$7,500. One person injured by flying glass. Wind damage principally to smaller buildings. Moved from southwest; path 1 mile long.
Hagerstown, Md.	7	P. m.		0	Estimated \$500,000	Heavy rain and wind	Buildings, including a church, unroofed. Scores of automobiles damaged; streets flooded; street and traffic lights out during a temporary power shut-off.
Baltimore, Md., and vicinity.	7	P. m.		0	Unknown	do	Streets flooded up to 5 feet, and large sections of many roadbeds torn up; dozens of trees fell, damaging 2 automobiles; 60 manhole covers washed into the street. Lightning struck a home in the Dundalk section, damaging the chimney and roof. Power lines blown down.
Morris County, Kans.	7	7:30 p. m.		0	\$50	Tornado	Heavy, dark storm clouds passed over Herington before they developed into a tornado, which struck the ground in the open country between White City and Parkerville. The funnel-shaped cloud dissipated rapidly. Storm moved from southwest.
Douglas County, Kans.	7	9:15 p. m.		0	Not estimated	Hail and windstorm	High winds with tornadic characteristics caused considerable damage to buildings and crops in the vicinity 7 miles east of Lawrence. Minor hail damage also occurred to crops and gardens. Moved from west.

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Cabell County, W. Va...	7-8	Night of 7, continuing most of the 8th.	-----	0	\$105,000 estimated...	Torrential thunder-showers.	Damage to roads and bridges, estimated at \$30,000; damage to crops and loss from soil erosion, estimated at \$75,000. Highways blocked temporarily and basements flooded.
Little Skin Creek, W. Va., about 3 miles southwest of Horner.	7-8	Night of 7, continuing on 8.	-----	0	No estimate.	Heavy rain and electric storm.	Local flash flood caused some damage to crops.
Claysville, Pa.	7	-----	-----	0	-----	Thunderstorm.	Hailstones did much damage to gardens.
Indiana, Pa.	7	-----	-----	0	-----	do.	High winds uprooted trees.
Dillsburg, Pa.	7	-----	-----	0	-----	do.	Barn and garage leveled; other buildings damaged and trees uprooted; windowpanes broken; telephone and electric wires down.
Hamilton County, Ohio.	8	Early morning	-----	0	-----	Severe thunderstorm.	Trees blown over and electrical service impaired.
Vadis, W. Va.	8	Early morning	-----	0	No estimate.	Heavy rain.	Post office at Vadis reported swept away by flash flood in Fink Creek.
Huron County, Ohio.	8	-----	-----	0	-----	Heavy rain and hail.	Damage to fruit trees and wheat.
Buckhannon, W. Va., and vicinity.	8	Most of day.	-----	0	No estimate.	Heavy rains.	Considerable soil erosion damage. Some cultivated fields flooded and some meadows and pastures sanded. Hail driven by high winds.
Kelly, LeRoy County, Colo.	8	2-3:00 p. m.	880-1,760	0	\$300,000.	Tornado, hail.	Buildings, equipment, and crops on 3 farms completely destroyed; 12 other farms affected. Estimated damage: wheat in the field, \$100,000; grain and feed in storage, \$5,000; cattle, horses, and poultry, \$5,000; buildings, automobiles, and equipment, \$190,000. Length of path, 20 miles. 3 people slightly wounded.
Bozeman, Mont., vicinity of.	8	3-4:00 p. m.	-----	0	-----	Light hail.	¾-inch stones, soft.
Ruby Dam, Mont.	8	Afternoon.	-----	2	-----	Thunderstorm and squall.	Boat overturned near Alder when squall came up; 2 men drowned.
Hutchinson County, S. Dak.	8	6:30 p. m.	Narrow	0	\$67,500.	High wind and hail.	High wind, blowing from southwest to northeast and accompanied by heavy rain and hail about 5 miles south of Menno, damaged grain fields and buildings.
Clarksburg, W. Va.	8	-----	-----	1	Unknown.	Thunderstorm.	Lightning struck a garage killing the owner.
Charleston, W. Va.	8	-----	-----	0	do.	do.	Lightning damaged a church.
Romney, W. Va., and most of remainder of Hampshire County.	8	Afternoon.	19-12	0	No estimate.	Heavy hail.	Widespread damage to fruit; considerable damage to garden crops. Hail driven by high winds.
Lake County, S. Dak.	9	1:15 a. m.	Narrow	0	-----	High wind.	High wind, blowing from south to north, about 7 miles southeast of Madison, blew down a barn and uprooted several trees.
Park Falls, Wisc., vicinity of.	9	9:45 a. m.	1 1/4	0	\$95,000.	Severe wind.	12 barns destroyed; several other buildings damaged; many trees, poles and wires down; corn and gardens damaged. Path 5 miles long.
Kelly, Colo.	9	1 p. m.	-----	0	\$25,000.	Hail.	Medium hail damage to grain and sugarbeets.
Wayne County, Ga.	9	4:30-5:30 p. m.	-----	0	\$5,500.	Wind and hail.	Areas near O'Quinn, Harris, and Piney Grove settlements struck by high winds and hail; considerable damage to cotton, corn, and tobacco crops; losses placed at \$5,000. Some damage to buildings, mostly to roofs and windowpanes; losses approximately \$500. Hail mostly of medium size, with some stones as large as 1 inch in diameter.
South-central to north-eastern Nebr.	9	Late afternoon and early evening.	-----	2	\$2,000,000.	Severe windstorm (some hail)	State Insurance Commissioner reported claims totaling \$1,600,000 had been filed. Severe windstorm covered large area.
Savannah, Ga., near	9	About 5:15 p. m.	-----	0	\$6,500.	Wind and hail.	A severe thunderstorm. High winds caused damage to property estimated at \$6,500. 2 dairy buildings and an airport hangar badly damaged, including minor damages to 4 airplanes. 1 cow and some chickens killed. Light to moderate undamaging hail.
Pipestone, Murray, Lyon, Renville, Kandiyohi Counties, Minn.	9	6:30-11:53 p. m.	-----	1	\$625,000.	Possibly small tornado.	Many barns, outbuildings, cabins, garages, farm machinery, silos, windmills, and automobiles demolished or damaged; a number of farm houses damaged; State Hospital buildings wrecked or damaged; 3 boxcars and 3 tankers lifted off the tracks; many poles and wires down; hundreds of trees uprooted; some livestock and much poultry killed; 2 people injured; growing crops damaged. Storm path 140 miles long, from southwest to northeast.
Pipestone, Murray, Lyon, Renville, Kandiyohi Counties, Minn.	9	6:30-11:53 p. m.	-----	0	-----	Hail.	Light to heavy hail caused considerable damage to growing crops and some damage to property.
Pipestone, Murray, Lyon, Renville, Kandiyohi Counties, Minn.	9-10	P. m.-a. m.	-----	0	-----	Heavy rains.	Railroad tracks and 6 road bridges washed out; highways, roads, streets, and basements flooded; lowlands inundated; growing crops damaged.
Darlington, S. O.	10	Late afternoon.	-----	1	-----	Electrical.	1 man killed by lightning.
Atlanta, Ga.	11	5:30 p. m.	-----	0	\$40,000.	Lightning.	1 huge barn struck and burned, destroying feedstuff, saddles, other stable equipment, and 5 blooded saddle horses.
Southeastern Donley County and northeastern Hall County, Tex.	11	6:30 p. m.	14-25	0	Estimate not available.	Hail.	Considerable damage to crops; some damage to buildings.
Colusa, Sacramento, and Yolo Counties, Calif.	11-12	-----	-----	0	\$273,000.	Wind.	Relatively small damage to apricots, almonds, pear, plums, prunes, and other fruits due to dropping; also lodging and shattering of grain. Wind caused fires to get out of control, thus contributing to total damage.
Harrisburg, Pa.	11	-----	-----	0	-----	Thunderstorm.	Hailstones as big as eggs. Electric and telephone service interrupted, trees uprooted, and many buildings damaged.
Southern half of Wyo.	11-12	-----	-----	0	-----	Heavy snow.	Heavy loss to livestock. In many places this was the heaviest June snow on record and the latest to occur in the season.
Deerfield, Va.	12	4-4:40 p. m.	-----	0	-----	Lightning and wind.	Lightning killed several cows; wind uprooted some trees and unroofed several buildings.
Great Falls, Mont.	13	4:43 p. m.	-----	0	-----	Wind.	Maximum velocity, 60 m. p. h. from southwest; visibility 1/4 mile. Extreme wind, 65 m. p. h.
Havre, Mont.	13	6:50-7:00 p. m.	-----	0	\$1,400.	Thunderstorm, wind.	Maximum wind 42 m. p. h.; 1/4 mile visibility. Damage to roofs, fences, and small craft in Fresno Lake.

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New Smyrna Beach, Fla.	14	2:05 p. m.	1 1/4	0	\$150	Squall and severe thunderstorm; waterspouts.	Damage consisted of broken windows and partial unroofing of old building. Early reports described this storm as a tornado or tornadolike wind. Waterspouts developed as storm moved out to sea. Two tenant houses damaged and a number of citrus trees uprooted.
Lake Garfield, Fla.	14	Afternoon		0	\$500	Small tornado	Gardens and fruit trees damaged by hail driven by strong winds in the vicinity of Atchison. Large patches of hail still remained in yards at 10 a. m. Unestimated crop damage to several thousand acres along a strip in the vicinity of Huron, northwest of Atchison. Storm moved from north.
Atchison County, Kans.	15	3-4:30 a. m.		0	\$1,000	High wind and hail	High wind southeast to northwest, accompanied by heavy rain, damaged trees, power and telephone poles, and wires.
Brown County, S. Dak.	16	5:25-5:38 p. m.	Narrow	0		High wind and heavy rain.	Moderate to heavy, marble-sized stones. Damage to winter wheat.
Columbus, Mont., vicinity of.	16	8:30 p. m.	440	0	\$12,000	Hail	Hailstones varied in size from marbles to nearly as large as baseballs. Greatest loss occurred in the east-central part of the county, with considerable spotted damage in other parts. Chief loss from crop damage. Storm moved from southwest, path 5 miles long.
Nemaha County, Kans.	16	10:30-11:30 p. m.	1 1/2	0	\$150,000	Heavy hail	Chief loss from spotted damage to wheat ranging up to nearly 100 percent in many fields in the southern part of the county where the storm path centered from Fairview through Horton to Everest. Near Fairview drifts of hail were reported hip deep on one farm. Fruit trees and gardens were badly hit in spots and some roof damage occurred in Horton. Storm moved from west; path 5 1/2 miles long.
Brown County, Kans.	17	3 a. m.	1 1/3	0	\$100,000	do	Buildings and crops on one farm severely damaged; 6 other farms in the Liberty School area affected. Lightning killed 4 people as they sought shelter under a lean-to on a barn.
Sterling, Colo., northwest.	18	2 p. m.		0	\$10,000	Tornado	Egg-sized hailstones destroyed crops and damaged buildings in an area of 30 square miles around Longmont. Roofs and greenhouses extensively damaged, windows and neon signs broken, and crop loss ranged from 25 to 75 percent. Crops affected were beets, row crops, hay and grain.
Davenport, Fla.	18	5:30 p. m.		4	0	Thunderstorm	Green Horn River flooded homes, washed out roads and 12 bridges, and damaged the water supply system.
Longmont, Colo.	18	2 p. m.	5,240	0	\$50,000	Hail	Most of hail fell on pasture land in southern part of county. Some damage to wheat fields occurred in southwestern portion. Storm moved from southwest; path 10 miles long.
Rye, Beulah County, Colo.	18	P. m.		0	\$120,000	Flood	Spotted hail damage to wheat in southeastern part of Lyon County east of Olpe. Larger stones were the size of a dime. Storm moved from west-southwest, path 3 miles long.
Chase County, Kans.	18	6-7:30 p. m.	1,320	0	Small	Hail	Thunderstorm began 6:15 a. m. and continued until 12:55 p. m.; rainfall between 6 a. m. and 3 p. m., reaching 15.79 inches; 6-hour amount, 15.38 inches (6 a. m.-12 noon), exceeding the previous greatest recorded 6-hour amount of 14.16 inches at Taylor, Tex., on Sept. 9, 1921. A refrigerating company on the edge of a drainage ditch which overflowed, suffered damages to goods and equipment.
Lyon County, Kans.	18	8:30 p. m.	880	0	\$4,000	do	The storm struck first in Rutherford County, causing some damage, then moved into southwestern Cleveland County, becoming more severe. Hail cut a wide swath through Boiling Springs to Lattimore and across to Fallston; wind uprooted numerous trees, unroofed several buildings, and blew down a smokestack. In Shelby, a radio tower was felled and 1 man electrocuted. Wind and hail damage to young cotton and matured grain estimated at \$400,000-\$500,000. Wind damage to other property was estimated at \$10,000.
Lake Charles, La.	19	5:50 a. m.-2:28 p. m.		0	Exceeding \$20,000	Cloudburst	1 man killed by lightning. Light hail: very little damage.
Shelby and vicinity in Cleveland County, N. C.	19	2:25 p. m.-around 4 p. m.	Several	1	\$400,000-\$510,000	Wind, hail and rain	Moderate hail, small stones; slight damage to grain and gardens.
McCormick, S. C.	19	Late afternoon		1		Electrical	Storm struck a 6-mile area along the Wake-Chatham border, leveling several buildings and causing crop and property damage estimated to be at least \$100,000. Most crop damage to tobacco and corn, with tobacco almost completely destroyed in some fields.
Plentywood, Mont., vicinity of.	19	7:30 p. m.		0	Slight	Hail	No estimate of damage readily available, but tobacco and corn suffered heavily. Hail which fell for 15 minutes in an area of 3 square miles also damaged cotton, soybeans, and watermelons. Damage in some fields ran close to 100 percent. High winds unroofed several buildings.
Vida, Mont., 12 miles north of.	19	10:00 p. m.	1,760	0	do	do	In Hot Springs vicinity, 5 bridges washed out, railroad tracks and highways undermined, telephone and power lines wrecked, streets and basements flooded.
Along the Wake-Chatham County line, N. C.	20	Around 4 a. m.	1 1/4	0	Estimated over \$100,000	Hail, wind, and rain	Cabins damaged at Stovepipe Wells; several trees blown down at Furnace Creek Ranch; roof blown off Chief Ranger's quarters at Cow Creek; telephone poles upset; glass blown from window sashes. Storm extended into the Antelope Valley and also into Nevada. At Mount Laguna Airway Station in San Diego County (elevation 5,202 feet), gusts reached a velocity of 128 m. p. h.
3 townships of Wayne County, N. C.	20	About 6 a. m.	1 1/2	0	Unknown	Wind and rain, hail	
Fall River County, S. Dak.	20	4:30 p. m.		0	\$75,000	Flash flood	
Death Valley, Calif.	20	About 5:10-9:00 p. m.		0		Wind	

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Hawley, Pa. Eastern two-thirds of Wyo.	20 20-21			0 0	\$250,000.	Thunderstorm Cold, heavy rain	Hailstones, size of marbles, damaged many gardens. Heavy loss to livestock. Rainfall amounts ranging up to 4 inches or more at some stations. Combined loss to livestock in this and snowstorm of 11-12, approximately a quarter million dollars. Losses were confined entirely to newly shorn sheep and new lambs. In this storm, some local flooding was reported, but losses were not large.
Yuba, Sutter, Placer, Yolo, Sacramento, San Joaquin, and other counties in central Calif.	20-21			0	Over \$1,000,000.	Wind	Orchard trees uprooted or limbs broken; tomato plants and grapevines broken; considerable loss of almonds, walnuts, apricots, pears, plums, and prunes, due to dropping; damage to grain by shattering and lodging. Fires going out of control burned several buildings and fields of grain.
Hopewell Junction, N. Y.	20			0	Unestimated	Hail	Tree fruit within 2 miles of Hopewell Junction, Dutchess County, severely damaged.
Yuma, Colo.	21	P. m.		0	\$10,000.	do.	Hail caused severe damage in spotted areas near Yuma. Principal crop affected, wheat.
Norton County, Kans.	21	7 p. m.	880	1	\$50,000.	Tornado	Storm moved from south; path 25 miles long, extended from vicinity west of Logan to 3 miles northeast of Almena in the eastern part of the county. 7 funnel-shaped clouds visible. Two of the twisters caused destruction of much property. Crop damage was about \$7,000. 3 people injured.
Phelps County, Nebr.	21-22	Night	Various	0	\$175,000.	5 tornadoes	Buildings on 4 farms destroyed, damaged buildings on 22 others. 8 persons injured, 1 seriously. 4 cars wrecked; some livestock killed.
Central Nebraska	21-22	Night	Wide-spread	13	Several millions.	Excessive rains and flash floods.	Severe damage to crops, roads, railroads, bridges, and buildings. Severe soil erosion.
Greeley, Welby, Brighton, Colo.	23	1:40 p. m.		0	\$50,000.	Flood	100 homes in Greeley flooded. Beet fields, truck crops, and pastures were washed out or damaged.
Shelby, Mont., vicinity of Butte, Mont., 5 mi. northwest.	23	2 p. m.	13	0	Moderate	Hail	Light damage to wheat; light hail size of peas.
Decatur County, Kans.	24	4 p. m.	13	0	\$128,800.	Thunderstorm, lightning. Heavy hail.	Man killed by lightning.
Wadena, Minn. and vicinity.	24	5:20-5:28 p. m.	1,760	0	\$2,000.	Hail	Wheat damaged in 3 areas around Oberlin. The larger losses were 12 miles northeast and about 3 1/4 miles northwest, with a much smaller damaged area southwest of the city. Storm moved from west; path 6 miles long.
Rawlins County, Kans.	24			0	Not estimated.	Small tornado	Light to heavy hail caused considerable damage to growing crops.
Rush County, Kans.	25	3:30 p. m.		0	Not estimated.	Hail	One set of farm buildings was destroyed north of Herndon. Other details unknown.
Sumner County, Kans.	25 and 26	4-7 p. m. 7 a. m.	14	0 0	\$1,500,000.	Violent wind and heavy hail.	Spotted damage over the county with several areas being severely hit. Hailstones were generally from 1/4 to 3/4 inch. Storm moved from west-northwest. Storm paths traversed the county from the northwest to the southeast, spreading to the southeast of Belle Plaine on the 25th and centering south of Mayfield to Perth eastward on the 26th. Chief loss from crop damage; property damage also very heavy. Hailstones ranged up to golfball size. High winds which accompanied the hail toppled oil derricks and silos.
Kingman County, Kans.	25 25 26	4:30 p. m. 5:30 p. m. and 6 a. m.	15 14 15	0 0 0	\$2,250,000.	3 heavy hailstorms	Wheat was damaged across most of the northern part of the county. Hailstones were generally about 3/4 to 2 inches in diameter. Damaged areas were centered from Varner and Kingman eastward to the county line on the 25th, and from Callista to Adams on 26th. All 3 storms moved from northwest; lengths of paths about 15 miles.
Northeastern S. Dak.	25	5:30-7 p. m.	1-2	0		Hail	1 to 2 miles wide for distance of 40 miles, from northeast of Groton, Brown County into Day County. Spotted damage to crops estimated at 20 to 100 percent.
Northeastern Ark.	25	Afternoon		1	\$2,000.	Thunderstorms, wind, hail.	A man killed by lightning near Warden. Most property damage by wind and hail to business property in Walnut Ridge.
Sedgwick County, Kans.	25 and 26	Evening and morning	15	0	\$500,000.	Heavy hail	Chief loss to wheat in the Cheney community west of Wichita and southeastward through Viola. Livestock damage comparatively light, though many chickens were killed. Hailstones, which were reported as large as baseballs, severely damaged buildings in locality 4 miles south of Cheney. Storm moved from northwest; length of path 12 miles.
Pratt County, Kans.	26	4:30-5 a. m.	1 3/4	0	\$250,000.	High wind and heavy hail.	Wheat badly damaged in northeastern portion of county. Heaviest losses centered in area bordering town of Luka. Strong winds, which accompanied the hailstorm, caused minor building damage in Luka and Pratt. Storm moved from northwest; path 15 miles long.
North Little Rock, Ark.	26	Afternoon		0	\$5,000.	Wind	Homes damaged by falling trees; 1 trailer destroyed.
Paragould, Ark.	26	do.		0	\$3,000.	do.	Broken windows and damaged roofs.
Hennepin, Ramsey, Scott, and Dakota Counties, Minn.	26	6:03 p. m.		0		Thundersqualls	Extensive damage to trees, a number of poles and wires down, several airplanes and hangars damaged.
Hennepin, Ramsey, Scott, and Dakota Counties, Minn.	26	6:38 p. m.		0	\$27,500.	Hail	Light to heavy hail that accompanied a severe thunderstorm caused considerable damage to growing crops and property.
Graham County, Kans.	26	9:30 p. m.	18	0	\$20,000.	Heavy hail	Chief damage to crops. Hailstones varied in size, from that of peas to hen eggs. Storm moved from northwest; path 8 miles long.
Russell County, Kans.	26	10 p. m.	1760	0	\$200.	High winds	Very high winds which approached Russell unexpectedly passed through the city very briefly. Chief loss to trees and a few broken windowpanes. No damage to crops. Storm moved from northwest; path 7 miles long.
Osborne County, Kans.	26	10:45 p. m.	110	0	\$1,400.	Strong winds	Scattered property and crop damage from Osborne northwestward. Major part of damage to property. Storm moved from northwest; path 25 miles long.

See footnotes at end of table.

## SEVERE LOCAL STORMS FOR JUNE 1947—Continued

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Columbus, Mont., vicinity of.	27	Noon.....	880	0	\$5,000.....	Hail.....	Moderate hail, size of marbles, considerable damage to wheat.
Billings, Mont., vicinity of.	27	1 p. m.....	1760	0	.....	do.....	Heavy hail, small stones; considerable to severe damage to beans, sugarbeets, and field peas.
Western, S. Dak.....	27	2:53 p. m.....	Narrow	0	.....	Tornado.....	Devastated strip, 300 to 500 yards by approximately 1 mile long, just north of Spearfish; several buildings wrecked; some livestock killed; and several people injured.
Glasgow, Mont., vicinity of.	27	4 p. m.....	12	0	.....	Hail.....	Moderate hail, $\frac{3}{4}$ inch stones, some damage to wheat.
Havre, Mont., vicinity of.	27	7:30 p. m.....	14	0	Some.....	do.....	Moderate to heavy hail, 1 inch stones; wheat and barley damaged.
Extreme southwestern, south-central and south-eastern counties, Minn.	27-28	9 p. m.-4:30 a. m.....	.....	0	\$670,000.....	Thundersqualls.....	A six-unit veterans' housing project and many barns, outbuildings, silos, and windmills demolished; a creamery, a lumber yard, and a fairgrounds grandstand unroofed; church steeple blown down; 6 grain tanks destroyed; many barns, houses, town buildings, garages, and automobiles damaged; a number of airplanes wrecked and many damaged; hundreds of trees uprooted; many poles, wires, and power lines down; some livestock and much poultry killed; a number of persons injured; growing crops damaged. Path about 200 miles long; general direction from west to east.
Extreme southwestern, south-central and south-eastern counties, Minn.	27-28	9 p. m.-4:30 a. m.....	.....	0	\$125,000.....	Hail.....	Heavy hail accompanied a severe thunderstorm. Much damage in places to growing crops and considerable damage to property.
Extreme southwestern, south-central and south-eastern counties, Minn.	27-28	9 p. m.-4:30 a. m.....	.....	0	\$5,000.....	Electrical.....	A farm home, a city building, and a residence struck by lightning. The farm home was burned.
Butler County, Kans.....	27	11 p. m.....	880	0	\$9,000.....	Hail.....	Damage to crops in vicinity 8 miles north of Potwin. Hailstones up to $\frac{1}{2}$ inch in diameter. Storm moved from west; path 2 miles long.
Wisconsin, southern.....	28-29	7 p. m.-2 a. m.....	.....	0	\$1,545,154.....	Severe linesquall and floods.	About 136 barns, 25 outbuildings, 15 silos, 1 church, store, and 8 small airplanes demolished; many houses, buildings, windmills, and farm equipment damaged. Large losses in growing crops and by soil erosion. Hundreds of trees uprooted, blocking highways, and damaging electric and telephone wires; more than 5,000 telephones out of order. Heaviest losses to utilities in Dane County. Some livestock and much poultry killed. 3 people were injured. Several highways and bridges were damaged; 400 feet of railroad track washed out 5 miles south of Sparta, and 3 miles of track damaged near Woodman-Wauzeka. Estimated flood damage, \$549,500.
Southeastern South Dakota.	28	1:30-1:45 p. m.....	12	0	.....	Hail.....	Hailstones, size golf balls, cut through a strip 2 miles wide and several miles long east of Sioux Falls. Crop losses varied up to 80 percent.
Hopewell, Va.....	28	3-4 p. m.....	100	0	\$200,000.....	Tornadic wind.....	Losses particularly heavy in a 2-block business section of Main St., and 6-block wide residential area; several people injured; none seriously, and about 20 left homeless. Community was isolated for nearly 9 hours. Approximately 100 buildings damaged; a great number of trees uprooted or snapped off.
York, S. C.....	28	During day.....	.....	2	.....	Windstorm.....	2 men drowned in Catawba River while fishing when their boat was swamped by a sudden gust of wind.
Scottsbluff County and other adjacent areas, Nebr.	28-29	5-8:30 p. m. and 7-7:15 a. m.	1 Up to 15.	0	\$1,500,000.....	Heavy hail.....	Hail in strips, mostly in Scottsbluff County, but heavy spotted damage in much of southern Panhandle. Some wind damage. 73 family living quarters in Scottsbluff made uninhabitable.
Chewsville, Md.....	28	.....	.....	0	.....	Wind and rain.....	Buildings damaged; trees and power poles blown down.
Keedysville, Md.....	28	.....	.....	0	.....	Hail and wind.....	Considerable damage to crops.
Northern counties of Ohio.	29	Afternoon.....	.....	0	.....	Severe thunderstorms.	A number of buildings struck by lightning.
Hartum, Flemming, Holyoke, Colo.	29	8:30-9:30 p. m.....	1-6	0	\$2,000,000.....	Hail.....	Severe loss to wheat, corn, and barley. Storm path about 35 miles long. Buildings damaged, windows and neon signs broken.
Saunders County, Nebr., northwestern portion.	30	7:15 a. m.....	1 Up to 2.	0	.....	Heavy hail.....	Winter wheat damage up to 100 percent; several separate areas were badly hailed; some damage to buildings.
Dillon, S. C.....	30	During day.....	.....	0	\$5,000.....	Windstorm.....	Probably a small twister. Flattened a barn and 3 other buildings; 3 persons injured.

See footnotes at end of table.

## LATE STORM REPORTS FOR MAY 1947

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
	<i>May 1947</i>						
Craighead, Greene, Poinsett, and Mississippi counties, Ark.	1	4-5 a. m.	150	1	\$200,000	Severe thunderstorm	Storm first hit at Cash, Craighead County, at 4 a. m. Damage mostly to homes, stores, churches, and schools. 1 person killed at Caroway. 35 people injured.
Scottsville, Va., 1/4 mile north.	21	7 p. m.	100	0	15,000	Tornado	Path one mile long; buildings unroofed; sheds blown up; shade and fruit trees uprooted; 2 persons injured.
Blanding, Utah	23	10:53 a. m.		0		do	Large black funnel-shaped cloud resembling tornado, accompanied by roaring noise and large hailstones measuring 1 1/4 to 2 inches in diameter. Damage reported to roofs and crops. Numerous persons indicated 1/4 of fruit crop destroyed. No estimates of the loss were received.
Northern half of Iowa	28			0		Snow	One to eight inches of snow fell over northern Iowa. In Des Moines it was the latest snow in history; numerous other stations reported record amounts for any May date as well as the latest snow on record. Branches torn from trees. Disrupted electric and telephone service in many communities. Heaviest snowfall amounts were 8.0 inches at Cherokee, 7.5 inches at Waukon, 6.0 at Hawarden and Alton, and 5.0 inches at Cushing, Milford, Northwood, and Iowa Falls.
Northwest half of Iowa	29	Early morning		0		Severe freeze	Temperatures fell to a low of 23° at Cherokee and Primghar, and readings in the northwest quarter were generally below 28° F. Freeze caused heavy damage to truck crops and some fruits in northwest quarter; elsewhere damage was spotted. Corn recovered in good shape—mostly just set back. Little or no damage to small grains. Light and spotted damage to soybeans that were up.

<sup>1</sup> Miles instead of yards.<sup>2</sup> Includes run-off.